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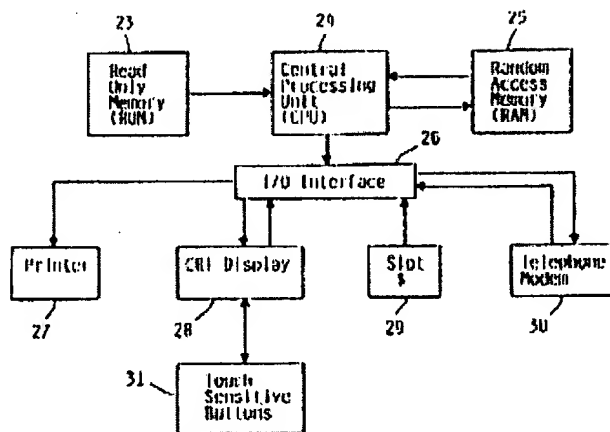
(12) Patent:

(11) CA 2049776

(54) COMPUTERIZED GAMING DEVICE

(54) JEU INFORMATISE

Representative Drawing:



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### ABSTRACT

A computerized gaming device and method of playing casino-type games of chance wherein a player chooses a game to play from a plurality of games displayed on a video screen. Each game has a finite number of chances per deal and a video display of the chances of winning when a deal is new, the percentage of winning chances remaining, the possible winning symbol combinations, and how many major winning chances remain. In addition, a displayed record is kept of the player's cash credit with a print out of wins and losses when he quits to claim any winnings. A provision is made to retire a deal or game whenever all the major winning chances have been won or when there are no more winning chances remaining. The player can quit at any time or call for a new deal screen after playing at least one chance in a deal.

CLAIMS [Show all claims](#)

\*\*\* Note: Data on abstracts and claims is shown in the official language in which it was submitted.

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 (45) Issued: **1999-05-04**  
 (22) Filed: **1991-08-23**  
 (41) Open to Public Inspection: **1992-05-21**  
Examination requested: **1992-01-30**  
 (51) International Class (IPC): **G06F 19/00 (2006.01)**  
**A63F 3/08 (2006.01)**  
**A63F 9/22 (1995.01)**  
**G07F 17/32 (2006.01)**

Patent Cooperation Treaty (PCT): **No**

(30) Application priority data:

<b>Application No.</b>	<b>Country</b>	<b>Date</b>
07/616,236	United States	1990-11-20

Availability of licence: **N/A**

Language of filing: **English**

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(72) Richardson, Joseph J., US

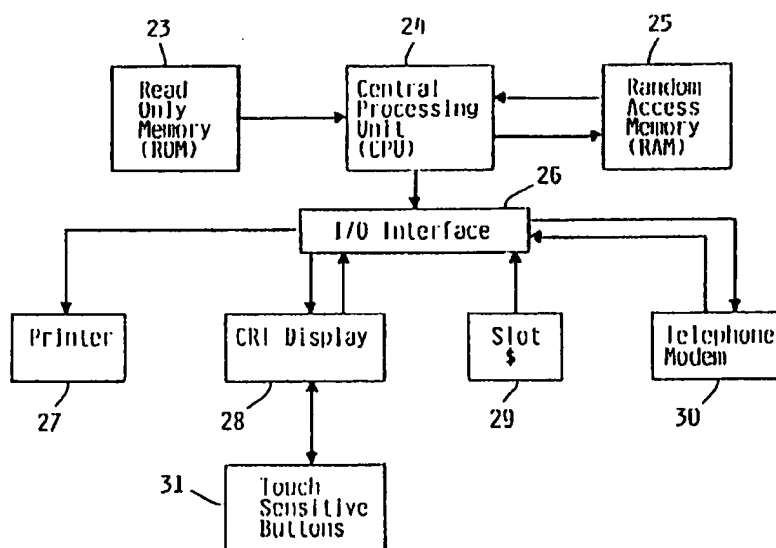
(73) Richardson, Joseph J., US

(51) Int. Cl.<sup>6</sup> G06F 19/00, A63F 9/22

(30) 1990/11/20 (07/616,236) US

(54) **JEU INFORMATISE**

(54) **COMPUTERIZED GAMING DEVICE**



(57) Dispositif et méthode de jeu électronique de type casino, offrant au joueur un choix de jeux affiché sur écran vidéo. Chaque jeu a un nombre fini de chances par donne et les chances de gagner sont affichées lorsque la donne est connue, le pourcentage résiduel de chances de gagner, les possibilités de combinaisons de symboles gagnantes, et le nombre résiduel de chances de gains importants. En outre, le solde des crédits liquides du joueur est affiché et un état imprimé de ses gains et pertes lui est remis à son départ pour la réclamation des gains. Des dispositions permettent de retirer une donne ou un jeu lorsque les possibilités de gains importants sont épuisées ou lorsqu'il n'y a plus aucune chance de gagner. Le joueur peut cesser de jouer quand il le veut ou appeler un écran de nouvelle donne après avoir tenté au moins une chance sur une donne.

(57) A computerized gaming device and method of playing casino-type games of chance wherein a player chooses a game to play from a plurality of games displayed on a video screen. Each game has a finite number of chances per deal and a video display of the chances of winning when a deal is new, the percentage of winning chances remaining, the possible winning symbol combinations, and how many major winning chances remain. In addition, a displayed record is kept of the player's cash credit with a print out of wins and losses when he quits to claim any winnings. A provision is made to retire a deal or game whenever all the major winning chances have been won or when there are no more winning chances remaining. The player can quit at any time or call for a new deal screen after playing at least one chance in a deal.

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**ABSTRACT**

A computerized gaming device and method of playing casino-type games of chance wherein a player chooses a game to play from a plurality of games displayed on a video screen. Each game has a finite number of chances per deal and a video display of the chances of winning when a deal is new, the percentage of winning chances remaining, the possible winning symbol combinations, and how many major winning chances remain. In addition, a displayed record is kept of the player's cash credit with a print out of wins and losses when he quits to claim any winnings. A provision is made to retire a deal or game whenever all the major winning chances have been won or when there are no more winning chances remaining. The player can quit at any time or call for a new deal screen after playing at least one chance in a deal.

COMPUTERIZED GAMING DEVICEBACKGROUND OF THE PRESENT INVENTION

## 5 1. Field of the Invention

The present invention relates to a computerized gaming device and method of playing such a casino game.

## 2. Prior Art

Pull-tab games in paper form have existed for many  
10 years and are commonly played in state regulated charitable gambling institutions. Likewise, computerized gaming machines simulating casino slot machine games are common. However, none are known that computerize games of chance such as pull-tab games.

15 Known prior art is in the form of paper tickets packaged in fixed number lots with a fixed payout and therefore, fixed profit. Such games vary in size from approximately 1,000 to 4,000 chances per lot or deal; and the payouts vary from deal to deal from a low of 60% to a  
20 high of 84% approximately. The payout of such games is usually in five or six tiers: 4 winning tickets in the highest tier, 4 winning tickets in the second tier, 4 winning tickets in the third tier, 12 winning tickets in the

fourth tier, and 200 small winners which often return only 1 or 2 times the cost of a ticket.

Many state regulations require that non-profit organizations who operate charitable gaming tickets (CGTs) place all of the tickets from a deal in a transparent container. This allows the players to see that winning tickets are not pulled from a separate place, envelope, or pocket as they were back when carnivals used this type of game. By looking at the container, players are able to get a rough estimation of how many tickets are left in that container. State regulations often require that an organization display what is called a flare for each game. The flare is a poster which shows the player: which symbols constitute a winner, the amount winning tickets award, and how many winners of each level there are in the game. The flare also may indicate what the payout percentage is for the entire game, and/or total ticket count, and/or the odds of hitting a winner when the game is new (hit frequency). Furthermore, some organizations mark off winners on the flare as those winners are redeemed. This allows a player to know how many large winners remain in the deal at any given time. Some organizations take the games out of play as soon as all of the "major winners" have been redeemed. "Major winners" are commonly referred to as those which are 50 times bet and above. Thus, played in this way an organization can actually take a loss on a deal if all of the major winners are redeemed before enough tickets have

been sold to realize a profit. All of these factors combined contribute to making CGTs one of the most straight forward and fair games imaginable. In order to determine profit and loss on a per deal basis, organizations often maintain separate banks for each deal.

Straight forward as CGTs are, there are also several problems from a regulatory and control perspective.

#### 10 Problem 1 : Insider Information

The clerk or attendant selling tickets and paying off winners has access to the individual deal bank and therefore can determine (through simply counting the cash) when the game bank has more money than the maximum profit of the game provides. This would indicate that the probability of a player winning is absolute if he purchases all of the remaining tickets. It is an excellent time to buy tickets. Knowing this, the clerk informs friends of the state of the bank, often in return for a piece of the winnings.

20

#### Problem 2 : Inside theft of Tickets

Without counting the tickets remaining unsold in a game the games cannot be accurately audited. Often organizations will offer as many as seven or eight games for sale at one time, in one place, with one clerk on duty. To physically count the tickets remaining in a game, especially when the game has many tickets, can take hours and the accuracy of such counts can be compromised by error. Furthermore,

affordable precision scales for weight counting the tickets can be off by as much as 3 to 4% due to variations in paper weight, thickness of glue for lamination, and other factors. Thus, auditing of the games on a nightly basis is virtually  
5 cost prohibitive. Clerks or attendants know this and can easily take a small number of tickets home with them each night to open. If they open a winner, they have a friend redeem it. It has become standard for organizations to lose up to 5% of their profit without alarm. They will often  
10 blame poor manufacturing, common errors in paying out winners (especially when sales are brisk), and any other possible culprit other than the clerk. Of course the accepted error rate also provides the management or the organization itself with an opportunity to pinch a little  
15 money.

### Problem 3 : Counterfeit Winning Tickets

Rank amateurs in counterfeiting have been involved in assembling or reproducing symbols and tickets to be turned  
20 in as counterfeit winners. This has been done by independents and can more easily be done in conspiracy with an attendant who knows that only a few of the games are truly inspected and when they are the inspectors do not take care in examining the redeemed winners for telltale  
25 counterfeit traits. Many people who inspect the games and conduct audits are low paid and expected to be able to inspect or audit a given number of games per hour; however, they are unknowledgable about what they should look for and



they have no incentive to examine redeemed winners carefully. Real detection of the magnitude of this problem can only be conducted through a careful statistical probability analysis. Such an analysis is beyond the  
5 capability of current regulatory agencies.

#### Problem 4 : Bootlegged Games

Bars and organizations can acquire games which have not been registered with the state, play them take the profit  
10 and none is the wiser. If the state registration stamp is counterfeited it would be very difficult to catch this activity. The state regulatory authorities do not have the personnel to travel about checking the validity of game registrations. Some organizations have run bootlegged games  
15 next to those which are registered and taxed. CGTs are widely available from a number of sources. Some states have tried to cut down on this through the requirement that all games shipped into their states be logged by the manufacturer who in turn sends the state a copy of the log  
20 so that it can be cross-checked with what is reported by distributors and finally by the organizations themselves. Theoretically law enforcement personnel would be able to walk into any club or bar and backchain the origin of a game. Often the low funding granted to regulation prevents  
25 this theory from being reality. Lack of coordination and will among states to require that all manufacturers keep logs on all games sent anywhere ensure that bootlegged games will continue to be available.

**Problem 5 : Underreporting Gross Receipts and Profit**

Organizations may avoid taxes by overstating the number of unsold tickets in a game, thereby underreporting profit.

- 5 Incomplete or inaccurate internal control documents could cover this.

**General Problem:**

States are increasingly viewing charitable gaming as an  
10 opportunity to generate extra tax revenue, usually for their general funds. Anti-gaming forces within legislatures find that underfunding regulatory control of charitable gaming is a good political tactic which could lead to problems which can be exploited to do away with gaming. Both of these  
15 problems tend to leave regulatory agencies with budgets too small to conduct serious enforcement activities.

To the applicant's knowledge there are no similar computerized games of chance with the features described herein. The games in this invention are written as computer  
20 programs and stored on computer memory chips which are encoded by means ensuring that if a game memory chip has been placed in an unlicensed device, the game will not play. This is but one feature intended to overcome the problems discussed previously.

25 **SUMMARY OF THE PRESENT INVENTION**

Therefore, it is the object of this invention to provide a computerized apparatus and method for playing a casino game of chance which overcomes the aforesaid

problems. In the preferred embodiment, the game correlates most closely to a pull-tab game. The computerized game disclosed herein uniquely presents the player with a choice of games, each having a finite number of winning chances. 5 Some of the desired features are the display of the percentage of winning chances remaining and the number and amounts of winning chances.

A computerized game is described wherein a player views a video display having a promotional screen. The screen 10 advertises the game and offers either a tutorial program for a nominal fee or the master game screen to begin playing. The tutorial program instructs a player how to play the game in a series of video presentations which simulate a game. The master game screen prompts the player to insert money at 15 the cash acceptor after which he may select a game to play from a plurality of games on display. Each of the displayed games advantageously shows the players the payout percentage and total number of chances, when the game deal is new, the approximate percentage of chances remaining, the number and 20 size of major winning chances remaining, and the cost of a single chance.

When the player selects a particular game to play by touching a sensitive electronic button on the video screen, the computer program is activated, causing a game deal 25 screen to appear on the video display. The player is presented that game's current deal showing the winning symbol combinations, the percentage of the game remaining to be played, the number of major winners remaining, and touch

sensitive chances, which when touched display their contents one at a time; or a flip-all button displays all of the offered chances. Also provided are a button to call for a new deal screen (only allowed after at least one chance in  
5 a deal has been played), and a button to quit the game and return to the master game or promotional screen. Also displayed on the deal screen is a record of the player's money won which is printed on a paper receipt in order for the player to cash in any net winnings at the casino bank.  
10 In one format, nine chances from the current deal of a selected game appear on each deal screen. A random number generator program determines the locations of nine chances (tickets) in a deal and they are displayed on a deal screen in such a manner that any unused chance is returned to the  
15 pool of unused chances in that particular deal. If less than nine unused chances are available, those chances will appear on the video along with a statement reading "last available chances in this deal."

The player may select by placing a finger on a  
20 particular touch sensitive chance button, and as the player does so, a credit is subtracted, and the chance is electronically displayed (flipped over) to reveal the three symbols it comprises. If the three symbols match those shown on the top of the screen as a winner, the appropriate  
25 amount of credits will be added and displayed on the video screen along with a corresponding sound and symbol graphic explosion.

If the player selects the flip-all button, nine credits are deducted from the credit display; and all nine chances are electronically flipped over. Any winning combination of three symbols on any one chance results in the increase of cash credits with an appropriate sound and symbol graphic explosion.

After viewing the results of flipping a chance, the player may select a new deal screen or quit. When a player chooses to quit, all of the remaining credits are indicated on a printed receipt which shows all wins for each game played, date and time of receipt, license number of the device, internal control validation numbers and dollar amount of the cash credit.

In addition, each game has as many as 50 deals stored in memory on a computer chip module. A record is kept of all plays for that module, including dates of major wins and their amounts, date of a deal first being played, date of a deal retirement, and number of chance tickets unsold at the time of retirement, in order for the regulatory agency and casino operators to evaluate the fairness and profitability of the games and, in particular, the odds. Such a record is useful in analyzing the feasibility of special features, such as the major win rule or the last sale feature. The major win rule is the playing of a deal only so long as at least one of the higher level winners (equal or greater than 50 times the price of a single chance) remains available to be won within a deal. After all of the higher level winners have been redeemed, the deal is retired from play and the

next deal for that game (if any remain) is put in place. A deal can actually lose money if the random placement of winners within a deal leads to the winners being selected by the players prior to enough losers being played to cover the profit of the game. The size of a major win may vary from one bet denomination to another. For instance, games with bet sizes of twenty-five cents may more commonly have major win definitions equal to or greater than 40 times bet or \$10.00.

As a further unique and advantageous feature, a last sale option is provided. By this feature, the very last chance available awards the player a prize equal to or higher than a major win if the games are played completely through the last chance in each deal. This feature provides an incentive for the player to finish a game and it means that all of the deals in a particular game could have the same actual payout and profit. The player can ascertain whether the last chance is worth the cost by viewing both the information on the game deal screen and the master game screen. Another feature is the computerized record keeping of at least the following deal information: 1) the total number of chances actually played; 2) the total amount of actual winning chances redeemed; 3) the total value of unsold chances within the deal; 4) the value of unredeemed winners; 5) the actual profit for the particular deal; 6) the date the deal was put in play and the date the deal was retired; and 7) the serial number of the particular deal. Every deal in the game is electronically audited with game

I.D. information and client I.D. information. Deal Audit Information may be printed on a monthly, weekly or daily basis, and/or when all deals within a game are totally exhausted. The information may also be collected for a device by a regulatory authority through telephone modem connected to a centralized regulatory computer.

The foregoing objects, features, and advantages become apparent from the following drawings and detailed descriptions of certain embodiments of this invention.

10                    **BRIEF DESCRIPTION OF THE DRAWINGS**

Figure 1A is a simplified block diagram of the principal components of the hardware configuration employed in the present invention;

Figure 1B is a configuration, as in Figure 1A, for a plurality of players to play the same game in competition;

Figure 2 is a block diagram of the steps a player follows to operate the present invention and play a game;

Figure 3 is a view of a master game video screen display offering the player the game selections and deal information;

Figure 4 is a view of a particular game/deal video screen display offering the player the current tickets, alternatives and winning chance information;

Figure 5A is a flow chart representing the principal steps employed by the games software programs; and

Figure 5B is a flow chart exemplifying the program in Figure 5A that actually displays the player's choices and determines whether there are any winnings.

5      DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

An exemplary embodiment of the invention is disclosed herein; however it is to be understood that it is not limiting, but merely a basis for the claims and for teaching one skilled in the art how to employ the invention in any  
10 appropriate way. The invention could be embodied in a variety of commercially available computers and its software could be written in any compatible programming language.

This embodiment utilizes a hardware configuration as described in Figure 1A wherein a computer comprises a  
15 central processing unit (CPU) 24, a read only memory (ROM) or a programmable read only memory (PROM) 23, a random access memory (RAM) 25, and an input/output interface 26 connected to a cathode ray tube (CRT) video display 28 having touch sensitive buttons or areas 31. Considered as  
20 a whole, Figure 1A comprises the hardware of the computerized gaming device of the invention.

In order to operate the computer in Figure 1A, the methods described in the computer program flowcharts of Figures 5A and 5B are employed. Those programs comprise a  
25 method of playing the games of the invention. In the preferred embodiment, the games resemble pull-tab casino games 40 as described in Figures 2, 3 and 4.



Figure 2 is a block diagram describing the various steps a player follows to play a game, along with an optional tutorial course initiated by touching player tutorial button 1. The video screen 28 alternates the display of two promotional screens 7 and a master game screen 8 as shown in Figure 3 until a player activates the device by inserting money into the money acceptor 9. Both of the promotional screens 7 also offer the player the opportunity to select the tutorial program 1 which instructs him (her) how to play and what to look for in the games.

In any embodiment, the tutorial program 1 is optional. Should a player choose the tutorial, he (she) is prompted to insert a dollar, for instance, in the slot 29 (Figure 1A), as indicated by step 6 in Figure 2. However, the player may insert a five, ten or twenty dollar bill with the credit for all but the dollar being given and displayed on the video screen 28. From each tutorial screen 1 the player is able to access the master game screen 8 as an escape from the tutorial. The tutorial is a series of screens wherein the first screen 1 informs the player of the finite character of the games, how the deals retire when the last major winner has been redeemed, and when and how the casino attendant may be called. The second tutorial screen 2 is a sample master game screen with overlays and arrows pointing out the specific features of each game that the player should look at when choosing a particular screen. The third tutorial screen 3 is a sample deal screen (an offering) which uses overlays and arrows to show a player a particular sample

deal and what to expect. It allows the player to choose (electronically "flip") sample chances (as shown at 45, Figure 4) to see which symbols comprise them. The fourth tutorial screen 4 is a summation and an advertisement of the games inviting the player to return to the master game screen 8, and start playing the game.

The master game screen 8 displays five different games and prompts the player to select (select game 10) one by touching a "play me" area 37 as shown in Figure 3. The master game screen includes : the names of the games 32, cost per chance 34, number of chances when a deal is new 35, chance meter 36 showing roughly the percentage of chances which remain in a deal, the payout percentage 38 when the deal is new, the number (and size) of winners 33 when the deal is new, and the number of major winners 39, 77 remaining in the deal at present.

If a player selects a game without having deposited money or with zero credits, a message appears asking the player to please place money in the money acceptor 9 in order to go to a deal (offering) screen shown in Figure 4. Anytime money is deposited it is recorded on two credit meters 76 (Figure 4).

Once a game is called for, the random number generator will select the order in which all of the chances in a particular deal will be called up. The random number generator program 57 (Figure 5A) will return a random number R 57 to be inputted to the shuffle program 58 which in turn will randomly select symbol sets for each of the next nine

chances 45 of a particular deal to be displayed on the deal screen shown in Figure 4. Since there are many ways in which a computer program can be written to select symbol sets and chance locations, the following FORTRAN code is but

5 an example of how to accomplish the same:

```

                                SUBROUTINE RANDOM (R,N)

C
C      WHEREIN N IS THE CURRENT DEAL SIZE INPUT
C      R IS THE RANDOM NUMBER TO BE RETURNED TO
10  C      THE CALLING PROGRAM
C
C      COMMON RTIME/TIME
C
C      WHERE RTIME IS THE VARIABLE EQUATED TO THE CURRENT
15  C      OR ELAPSED TIME AS IT IS CLOCKED BY THE COMPUTER
C      SYSTEM.
C      THEREFORE ITS UNIT OF MEASURE IS DEPENDENT ON THE
C      PARTICULAR COMPUTER MANUFACTURER'S HARDWARE AND
C      UTILITY SOFTWARE
20  C
C      THIS SUBROUTINE COMPUTES A RANDOM NUMBER FROM 1 TO
C      N AS A FUNCTION OF THE CURRENT TIME AS FOLLOWS:

C      N = N + 1
25  C      R = INT (RTIME * 1000000000)
C      R = MOD (R,N)
C      IF R.EQ.0 R = 1
C      N = N - 1

C
30  C
C      NOTE: R = RTIME * 109 IS JUST ONE WAY TO ENSURE A
C      POTENTIALLY LARGE DIFFERENCE IN THE RANDOM NUMBERS
C      GENERATED BY RAPID SUCCESSIVE CALLS TO THIS
C      SUBROUTINE.
35  C      THE NUMBER 109 IS BUT A SUGGESTED MULTIPLIER WHICH
C      CAN BE CHANGED DEPENDING ON ACTUAL RESULTS DURING
C      TESTING

C      RETURN
40  C      END

```

Table 1 is an example of a deal structure wherein four different symbols, represented by letters or characters, are selected three at a time to generate twelve different

combinations comprising the chances as previously discussed.

TABLE 1

## EXAMPLE OF A DEAL STRUCTURE

TOTAL NUMBER OF CHANCES = 1,620  
 PRICE PER CHANCE = \$1.00  
 GROSS RECEIPTS POSSIBLE = \$1,670.00

## ALLOWABLE SYMBOLS

F	P	C	\$
FISH	PIRATE	CRAB	MONEY

SET	NUMBER OF CHANCES	COMBINATION OF SYMBOLS	MONEY WON EACH CHANCE	MAXIMUM WINNINGS
1	4	\$ \$ \$	\$100.00	\$400.00
2	4	P P P	\$ 75.00	\$300.00
3	4	C C C	\$ 50.00	\$200.00
4	12	F F F	\$ 5.00	\$ 60.00
5	200	\$ \$ F	\$ 2.00	\$400.00
6	296	F P C	0	0
7	200	F F P	0	0
8	200	F F C	0	0
9	200	F P P	0	0
10	200	C P P	0	0
11	200	C C F	0	0
12	200	P C P	0	0
TOTAL POSSIBLE PAYOUT (WINS)				\$1,360.00
IDEAL PROFIT				\$ 310.00
% PROFIT				18.56%

Obviously, four symbols taken three at a time could be combined in 64 different ways. However, for profitability and efficiency reasons, the games in this invention are designed in a predetermined manner as in Table 1. It is to be noted that there may be symbols used which are not winners.

Letting Table 1 represent the deal structure for each deal of a particular game, one way to randomly generate combinations of symbols comprising the array of nine chances 45 to be displayed on the deal screen in Figure 4 is described in the following FORTRAN code:

```

MYCOM.CMM

C
C   THIS CODE SETS COMMON ADDRESSES FOR VARIABLES USED
10 C   IN MORE THAN ONE PROGRAM OR SUBROUTINE
C
C   INTEGER*4 DEALNUM, TS, NEXT1, QUIT1, FLIPALL, MWIN,
    1FSET, LWIN, X.LFLAG
C
15 C   CHARACTER*3 GAME1, GAME2, GAME3, GAME4, GAME5,
    CHANCE,
    1SET
C
C
C
20 C   REAL PR, CREDIT, DPR
C
C
C   COMMON/MYCOM/GAME1 (1620), GAME2 (3264), GAME3
    (2400),
25 1GAME4 (3385), GAME5 (2599), DEALNUM (5), CHANCE
    (9), TS
    1(9), X, NEXT1, QUIT1, FLIPALL, SET (12), FSET
    (500), DPR
    1(5), MWIN (5), CREDIT, LWIN (12), LFLAG, SET1 (12),
30 SET2
    1(12), SET3 (12), SET4 (12), SET5 (12), X1, X2, X3,
    X4, X5,
    1PR
C
C
35 C   ADDITIONAL VARIABLES CAN BE ADDED AS NEEDED FOR
    C   OTHER SUBROUTINES SUCH AS THE AUDIT PROGRAM
C
C   SUBROUTINE SHUFFLE (GAMENO)
C
40 C   INTEGER*4      N, R, X, DEALNUM(5), FSET(500)
    CHARACTER*3      SET(X), GAME1(1620), GAME2(3264),
    1GAME3(2400), GAME4(3385), GAME5(2599), CHANCE(9),
    SET(9),
    1GAME(N)
C
45 C   INCLUDE 'MYCOM.CMM/NO LIST'
C
C
C
50 C

```

```

C      THIS SUBROUTINE RANDOMLY SELECTS CHANCES FROM A
C      GAME'S DEAL DATABASE STORED IN A COMMON MEMORY TO
C      THE MAIN PROGRAM AND OTHER SUBROUTINES AND PLACES
C      THEM INTO THE DEAL SCREEN POSITIONS
5      C
C      WHERE N = DEAL SIZE
C      X = NUMBER OF DIFFERENT CHANCE
C      (SYMBOL COMBINATION) SETS ≤ 12
C      SET(X) = ARRAY DEFINING THE DIFFERENT SETS OF
10     C      SYMBOLS COMPRISING THE CHANCES IN A
C      PARTICULAR DEAL
C      FSET(X) = ARRAY OF SIZES (NUMBER OF CHANCES) OF
C      EACH SET(X); IT IS DIMINISHED BY ONE EACH
C      TIME A CHANCE FROM SET(X) IS CHOSEN BY A
15     C      PLAYER
C      GAME1  ARRAYS CONTAINING THE DEAL
C      TO      = STRUCTURE FOR
C      GAME5   EACH GAME
C
20     C      GAMENO = A NUMBER FROM 1 TO 5, IT IS THE
C      PARTICULAR GAME SELECTED BY THE PLAYER
C
C      NTICKET = 0
C
25     C      INITIALIZE NUMBER OF CHANCES TO BE SELECTED FOR A
C      NEW DEAL SCREEN
C
C      GO TO GAMENO
C
30     C      THE FOLLOWING SETS THE CURRENT DEAL DATABASE OF A
C      CHOSEN GAME
C
1      N = 1620
C      X = X1
35     DO 8 J = 1,X
C      SET (J) = SET1(J)
C      8 CONTINUE
C      DO 7 I = 1,N
C      GAME(I) = GAME1(I)
40     7 CONTINUE
C      GO TO 6
C
C      2 N = 3264
C      X = X2
45     DO 10 J = 1,X
C      SET (J) = SET2(J)
C      10 CONTINUE
C      DO 9 I = 1,N
C      GAME(I) = GAME2(I)
50     9 CONTINUE
C      GO TO 6
C
C      3 N = 2400
C      X = X3
55     DO 12 J = 1,X

```

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```

      SET (J) = SET3(J)
12  CONTINUE
      DO 11 I = 1,N
          GAME(I) = GAME3(I)
5   11  CONTINUE
      GO TO 6
C
      4   N = 3385
          X = X4
10  DO 14 J = 1,X
          SET(J) = SET4(J)
      14  CONTINUE
          DO 13 I = 1,N
              GAME(I) = GAME4(I)
15  13  CONTINUE
      GO TO 6
C
      5   N = 2599
          X = X5
20  DO 16 J = 1,X
          SET(J) = SET5(J)
      16  CONTINUE
          DO 15 I = 1,N
              GAME(I) = GAME5(I)
25  15  CONTINUE
C
      6   DO 20 L = 1,9
          CALL RANDOM (R,N)
          DO 30 I = 1,X
              TCHECK = GAME(R)
30  IF TCHECK .EQ SET(I) .AND. FSET(I).NE.0
              TICKET(L) = SET(I) .AND. NCHANCE =
                  NCHANCE+1
                  !60
C
35  C   THE ABOVE RANDOMLY DETERMINES WHICH CHANCES TO
      DISPLAY AS C THE 9 CHANCES ON THE DEAL SCREEN
      30  CONTINUE
      20  CONTINUE
          IF NCHANCE .EQ.9 GOTO 200
          ELSE DEALNUM(GAMENO) = DEALNUM(GAMENO)+1
          !56
40  CALL AUDIT
          !59
          NCHANCE = 0
          GO TO 6
C
45  C   DEAL RETIRED, DO ACCOUNTING AND INITIALIZE FSET(X)
      AND RETRY FOR A GOOD DEAL
      200 RETURN
      END

```

50 A program as described herein permits carrying out the game steps shown in Figure 2. Once a particular game is selected by pressing one of the play me buttons 37 shown in

Figure 3, a deal display will appear on the video screen (step 11, Figure 2), an example of which is shown in Figure 4 as Buried Treasure.

A player then may select any one chance at a time by placing his finger on a particular chance among those displayed at 45, Figure 4. As the player does so, a credit is subtracted, and a chance is electronically flipped over (16) to reveal the three symbols it contains (17). If the three symbols match those shown on the top of the screen as a winner, the appropriate amount of credits will be added on the credit meter--individually and quickly with a corresponding sound.

A player must select at least one chance from each screen offered. Afterwards, he has the opportunity to select a new Deal Screen 18 (touch button 42, Figure 4) with a new offering of nine chances. Those not chosen off of the previous screen go to the back of the deal and shall reappear only after the original order has been exhausted. A player may wish to flip all of the nine chances on the screen at once. Should this be desired, he merely place his finger on the "Flip All" button 41 (Step 12, Figure 2) on the screen. Nine credits shall be deducted, and all of the chances shall be electronically flipped at once. Any winning combination of three symbols on one or more chances shall result in the increase of credits individually, quickly and with appropriate sound, as indicated at step 13 in Figure 2. When this "Flip All" is used, we anticipate the player desired speed, and therefore for a brief moment



after all of the credits have been accumulated from the previous win the next Deal Screen shall appear (14). Thereafter the player may repeat the "Flip All" sequence (15) or return to the Master Game Screen (21).

5       A player may choose to return to the Master Game Screen as shown in Figure 3 (21) from any subsequent Deal Screen without having to flip a chance. A player may go to the Master Game Screen after selecting only one chance in the "Flip Individual Chances" method or track. When a player  
10 returns to the Master Game Screen, his credits shall go with him and be debited from the game meter they exited. Upon returning to the Master Game Screen, the player selects a different game (22), and the steps commencing with step 11 are repeated.

15       A player may quit from either "Flip Individual Chances" (16), "Flip All Tickets" (12), or the "Return to Master Game Screen Mode" (21), or any tutorial. When a player chooses to quit by touching button 43 on the screen (19), all of the remaining credits are indicated on a printed receipt (20)  
20 which shows all major wins for each game played, date and time of receipt, license number of device, two internal control validation numbers, Dollar amount in both numerical and written form.

      The software provided carries out logic steps 50-65  
25 illustrated in Figure 5A in order for game play to progress through the game steps illustrated in Figure 2. Start step 50 is initiated in response to a player putting a bill into the bill acceptor (step 9, Figure 2). The audit step 51

then operates automatically to determine if a player has enough credits to play. The main program calls various subroutines to determine which deal of a game is available - either a current deal 53 with chances remaining or a new  
 5 deal 54, or if none 62 are available, a message 63 is displayed on the video screen that the particular game has been retired. If a game is retired, the player can choose another game 52 from the master game screen, or call the operator 65 or quit 5, 19. The main program also responds  
 10 to the player's choices, provides for the deal structure initialization 55 within each game and monitors the game playing. After the deal number is updated in step 56, the random number generator calls up a number of chances in step 57. The subroutine SHUFFLE 58 described above with respect  
 15 to Table 1 is called from a main program which will monitor the game choices selected by the player at the master game screen and shuffle the chances into a nine ticket array.

There are many ways in which software can be written to accomplish the same result. The following FORTRAN code is  
 20 but one example of how such a main program can be written:

```

      PROGRAM MAIN
      C
      C      INTEGER*4  N, X, DEACNUM, FSET, LFLAG, TS
25  C
      C      CHARACTER*3  GAME1, GAME2, GAME3, GAME4, GAME5,
      C      1GAME, SET, CHANCE
      C
30  C      DIMENSION GAME(5000)
      C
      C      THIS IS THE MAIN PROGRAM WHICH MONITORS GAME
      C      SELECTIONS ON THE MASTER GAME SCREEN AND CALLS THE

```

```

C      SUBROUTINES TO PROCESS GAME CHOICES AS NEEDED
C
C      INCLUDE 'MYCOM.CMM/NO LIST'
5  C      CALL AUDIT !51
C      INITIALIZE AND UPDATE THE GAME RECORDS AND CHECK!50
C      THE PLAYER'S CREDIT - IF NOT ENOUGH CREDIT STOP THE
C      PLAY AND NOTIFY THE PLAYER
10 C      READ (UNITM,1000) GAMENO !10
C      READ GAME NUMBER SELECTED ON MASTER SCREEN
C
C      1000 FORMAT (I)
15 C      IF LFLAG .EQ.1 GO TO 100 !11

C      IF LFLAG = 0, A NEW DEAL OF A DIFFERENT GAME IS
20 C      STARTED
C
C      GO TO GAMENO
C
C
25 C      1 READ (PROMU, 1010) X1, SET1(I) I = 1,X1
C          PROMU IS THE LOGICAL UNIT FOR PROM
C          READ (PROMU, 1001) GAME1(I) I = 1,1620
C          GOTO 110
30 C      2 READ (PROMU, 1010) X2 SET2(I) I = 1,X2
C          READ (PROMU, 1002) GAME2(I) I = 1, 3264
C          GOTO 110
C      3 READ (PROMU, 1010) X3, SET3(I) I = 1,X3
C          READ (PROMU, 1003) GAME3(I) I = 1, 2400
C          GOTO 110
35 C      4 READ (PROMU, 1010) X4, SET4(I) I = 1,X4
C          READ (PROMU, 1004) GAME4(I) I = 1, 3385
C          GOTO 110
C      5 READ (PROMU, 1010) X5, SET5(I) I = 1,X5
C          READ (PROMU, 1005) GAME5(I) I = 1, 2599
40 C          GOTO 110
C
C      1010 FORMAT (I4, 12A3)
C      DATA MUST BE FORMATTED THE SAME WAY ON THE PROM
C      1001 FORMAT (1620 A3)
45 C      1002 FORMAT (3264 A3)
C      1003 FORMAT (2400 A3)
C      1004 FORMAT (3385 A3)
C      1005 FORMAT (2599 A3)
C
C      THE ABOVE CODE READS THE VARIOUS GAME DEAL
50 C      STRUCTURES AND CORRESPONDING ODDS PER COMBINATION
C      OF SYMBOL SETS INTO THE CPU FROM PROM
C
C      110 DEALNUM(GAMENO) = DEALNUM(GAMENO) + 1
55 C      IF DEALNUM = 51 GOTO 2000

```

```

C          IF DEALNUM = 51, THEN ALL DEALS IN THIS GAME
          ARE RETIRED
C
5    100  CALL SHUFFLE (GAMENO)
          CALL FLIPS
          GOTO 2010
C
          2000 WRITE (UNITM, 1020)
          1020 FORMAT (1X, 'ALL DEALS IN THIS GAME ARE RETIRED,
10          '/'
          CHOOSE QUIT TO RETURN TO THE MASTER GAME SCREEN TO
          CHOOSE
          ANOTHER GAME OR CALL THE OPERATOR')
          C    PAUSE UNTIL PLAYER MAKES CHOICE
15    2010 STOP
          END

```

The subroutine AUDIT 51, 66 records information about  
 20 each deal played in each game. It keeps track of the cash  
 credits, the number of chances actually played, the total  
 amount of winning chances remaining to be played in a deal  
 and potentially anything that can be accounted for as  
 desired. A credit transfer feature automatically transfers  
 25 a player's credits when the player switches from one game to  
 another. Recording this information permits tracking player  
 game preferences through credit sourcing.

There are many unique ways such audit program may be  
 written and it is obvious that a person trained in the art  
 30 of programming would be able to readily write such a program  
 given the input and output specifications.

In the main program described above, one way to  
 determine whether a game is new or whether a deal within a  
 game is new, is by using the variable LFLAG to call  
 35 subroutine AUDIT, which in turn initializes a flag for each  
 game and for each deal within it in order to tell the main

program which data structure to work with when it calls the subroutine FLIPS 61 (Figure 5A) to reveal the player's choices. Subroutine FLIPS 64 (Figure 5B) is but one way to respond to and display a player's chances on the deal screen. The logic steps 64 through 74 shown in Figure 5B may be incorporated in a program as follows, the reference numerals at the right hand margin indicating the steps as shown in Figures 2, 4, and 5B.

```

C      IS THERE A WINNER? COMPARE SELECTION AGAINST
      WINNING SETS                                     !71
      IF CHANCE(J) .EQ. SET(I) THEN
      CALL WINNER                                     !72
5      END IF
      25 CONTINUE
C      DECREASE NUMBER OF CHANCES IN THIS SET BY ONE
      DO 27 I = 1,X
      IF CHANCE(J) .EQ. SET(I) THEN
10      LWIN(I) = 1 .AND. FSET(I) = FSET(I) - 1
      END IF
      27 CONTINUE
      30 CONTINUE
      GO TO 55
15      50 IF NEXT1 .EQ. 1 .AND. PR .LT. 100 THEN !14, 15, 47
      CALL NEXT !PR IS PERCENTAGE OF DEAL REMAINING
      ELSE                                           !67
      WRITE (UNITM,2020)
      END IF
20      2020 FORMAT ('YOU MUST SELECT AT LEAST ONE CHANCE IN !68
      THIS DEAL')
C      GO TO 1                                     !15, 18
      55 DO 60 I = 1,9
      IF TS(I) .EQ. 1 THEN
25      WRITE (UNITM, 3000) CHANCE(I)               !16, 17
      60 CONTINUE
      3000 FORMAT (A3)
      CALL AUDIT                                     !66
C      RESET BUTTONS AND VARIABLES TO ZERO OR .FALSE.
30      DO 75 I = 1,9
      LWIN(I) = 0
      TS(I) = 0
      75 CONTINUE
      FLIPALL = 0
35      NEXT1 = 0
      QUIT1 = 0
      RETURN                                         !69, 74
      END

```

40 A subroutine WINNER 71, 72 called by the subroutine FLIPS is a means to notify the winner immediately by emitting sound and/or flashing lights and/or graphic simple explosion on the video display. The FLIPS 61, 64 subroutine

45 also calls the subroutine AUDIT 66, 73 to update the accounting records for the games and to display current values of the player's cash credit, wins, percentage of each

deal remaining 47 in each game and number of major wins remaining 77 and other items as appear to be appropriate.

There are other ways in which this invention may be embodied in software and hardware. The preferred way is the most efficient one. Time is of the essence while playing a game in this invention. Therefore, it is important to create software programs that respond quickly; otherwise players will become bored and disinterested with the game. The examples of computer programs described herein are written with speed of operation in mind by performing search operations on the databases located in the central processing unit rather than on another device. Furthermore, the use of the random number generator and shuffle subroutines provide a quick way to rearrange the array of chances to be displayed rather than actually moving the location of each chance within a deal in a particular database. The latter could involve thousands of computer move operations and take much longer to do.

The particular video screen design and method of displaying pictures and words can be produced in many ways also. There are many commercial video screens and accompanying computer software to display messages both visually and audibly. They deserve mention here even though they do not comprise the invention except when viewed as a whole. Likewise, the means of employing touch sensitive electronic buttons (or light sensitive buttons) by which the player can signal the computer of his/her choices is also a

commercial product readily available in the market as needed to suit specific applications.

Lastly, the particular software described herein is compiled into an object code form and encoded into  
5 electronic circuitry on semiconductor chips within a programmable read only memory (PROM or ROM) 23. It is the object code of the main program and subroutines along with the deal structure of each game that is down-loaded to the central processing unit 24 at runtime. The audit subroutine  
10 records can be stored on the random access memory 25 for updating the video display and final printout 20, 27. The audit subroutine handles a variety of accounting tasks including initializing and updating flags to signal a particular deal's status. One important function of the  
15 audit subroutine is to check the choices of winning tickets 44 in each symbol set and update said flags via a program instruction (eg. COMMON STATEMENT) in order that a deal (or game) be properly retired when appropriate.

The software example discussed herein can be readily  
20 adapted to a variety of computers and peripheral devices such as printers and video displays and their respective operating systems.

Since the PROM or ROM unit 23 can be interchanged and uniquely designed by the manufacturer, a unique feature of  
25 this invention is that the games deal structures, odds and operational software can be modified by the manufacturer to keep the games interesting. This feature provides the flexibility desired by casino operators and regulatory



agencies in order to promote both fairness and profitability.

Finally, the PROM or ROM 23 and computer hardware are encoded with licensing information in such a manner that the software can only be operated in specific devices and/or only enabled by a person having knowledge of how to satisfy the code requirements. Such means and method is strictly hardware/software dependent or subject to manual input of a license code on a computer keyboard. Such means and methods are easily created by one trained in the art of designing computer security. One example of such encoding is the creation of a variable named LICENSE which is inputted on the PROM 23 and RAM 25 modules and at a read only location on the CPU 24. A software test procedure called at runtime reads the variable LICENSE at each of the three locations, compares them, and if they don't compare the computer is interrupted. Likewise the software test program can prompt an operator to input the correct licensing code at a keyboard in order to ensure the lawful operation of the games.

Another method of designing computer programs of chance is to set up each deal in each game on the ROM 23 chip module such that the chance symbol set combinations are randomly located. Thus the deal databases are predetermined in a random manner and need only be read consecutively as input to the array of the nine chance locations 45 on the deal screen. All games are on chip modules. Each module has as many as 50 deals per module.

Another feature of this invention is the auditing of games and licensing information for the regulatory agency. Each game chip module keeps a memory record of all play off that module. A telephone modem 30 as shown in Figure 1  
5 connects the information collected by the AUDIT subroutine in order for it to be stored and printed (27) out at a central computer facility operated at a remote location. In particular the deal retirement information is as follows:

- 1) the total number of chances actually played;
- 10 2) the total amount of actual winning chances redeemed;
- 3) the total value of unsold chances within the deal;
- 4) the value of unredeemed winners;
- 5) the actual profit for the particular deal;
- 15 6) the date the deal was put in play and the date it was retired;
- 7) the serial number of the particular deal.

In addition, game identification and client information  
20 would include the following:

- 1) the name of the game;
- 2) game memory chip device number;
- 3) game manufacturer numbers;
- 4) total number of chances within each deal of the  
25 game (common to all deals within the game);
- 5) total value of all winners within each deal of the game (common to all deals);

- 6) price per chance (common to all chances within a game);

and client/customer identification as follows:

- 1) name of the client, customer, or casino owner;
- 5     2) state granted license number or permit of the client, customer or casino owner;
- 3) expiration date of such license or permit;
- 4) address where the gaming device is located.

Such deal audit information can be printed out as requested.

- 10     The deals can be retired either after all winning chances have been redeemed, or under the major win rule or under the last sale feature as follows:

1. Major Win Rule: This is the procedure of playing a deal only as long as at least one of the higher level winners (→50 times price of a single chance) remains available to be won within the deal. After all of the higher level winners have been redeemed the deal is retired from play and the next deal for that game (if any remain) is electronically placed in play as a new deal. Thus a deal  
15  
20 can possibly actually lose money if the randomized placement of winners within that deal lead to the winners being selected by the player prior to enough losers being played to cover the profit of the game. An electronic game using the major win rule is a distinctive feature of the device  
25 disclosed. The size of what is considered a major winner may vary from one client to another and from one bet denomination game to another. Games which have bet sizes of twenty-five cents may more commonly have major win

definitions which are equal to or greater than 40 times bet or \$10.00. The client has the ability to define the sizes of major winners. The auditing program also keeps a record of the dates of major wins and their amounts.

5        2. **Last Sale Feature:** The last sale feature works as an inducement to players to acquire all of the chances in a game. The very last chance available awards them a certain prize, usually one of a higher level. In cases where the last sale feature is provided, the games are played  
10 completely through the last chance in the deal. This would mean that all of the deals in a particular game would have the same actual payout and profit.

In addition to the embodiments previously discussed, there is disclosed in Figure 1B a further embodiment  
15 comprising a plurality of video screens (CRT Display) 28 connected to a common games database having the ability to communicate with software for a plurality of games while a plurality of players compete with each other. In the preferred embodiment, only certain predetermined games are  
20 programmed for group, competitive play. In this alternate embodiment the video screens function as terminals, each of which has its own game software but sharing some common games databases and auditing information. The video screen terminals may be set low enough that a plurality of players  
25 can see and talk to one another while playing the same deal within a game. This provides a social element and a feeling of sports competition among some players who enjoy racing to see who wins first. Each player initiates play on his

machine by putting money in a slot or bill acceptor 29. As with the single player mode of Figure 1A, each player selects a particular game, e.g. Buried Treasure 40, Figure 4, by pressing a touch sensitive button 31 on his video  
5 screen. Play by each person is the same as described above and as illustrated in Figures 2, 4, 5A and 5B. The interface 75 is embodied as a plurality of buses, one for each player's processor 24 and connecting it to the other players' processors 24. A bus controller is a computer  
10 program residing in any processor 24 with the other processors 24 acting as backups. The bus controller will monitor the transmission of data updates along the buses to and from each processor which, in turn, sends data to update its RAM 25 in the AUDIT subroutine. This processing insures  
15 that the current polling of available chances is available at each player's gaming device and displayed on the video screens 28.

The foregoing descriptions do not limit the invention, but are intended to instruct a skilled computer programmer  
20 and engineer how to implement the same on various hardware and software configurations.

What is claimed is:

We Claim:

1. A computerized video device for playing a game of chance comprising:

a processing means for processing game and deal data;

a plurality of programs residing in a computer memory device for playing and accounting for the play, and results of the play, of a plurality of titled games, each said game having a plurality of deals, each different deal of a titled game having when first started a specific and identical combination of graphic symbols which represent a finite and identical quantity of chances;

a video display means for displaying a plurality of game and deal screens including at least two game titles from which a player may select one to play;

an input means for signalling the player's game title and chance selections to said processing means;

output means for revealing selected chances and displaying winning amounts;

characterized in that each different deal of each said game has an identical price per chance displayed to the player prior to game title selection, and a fixed predetermined and identical quantity of winning chances displayed to the player prior to game title selection, with each winning chance paying a fixed, predetermined winning amount displayed to the player prior to game title selection; and

said processing means further comprises means for returning the deal chances not chosen by the player to the deal for future selection and deleting any chosen chances from said deal, whereby subsequent to game title selection, said video display means displays a plurality of unrevealed chances offered for play from which a player may select to play one or more chances.

2. A computerized video device as in claim 1, characterized in that the processing means further comprises a

comparing means for comparing the player's selections with winning chances.

3. A computerized video device as in claim 1, characterized in that the processing means further comprises a random number generating means for selecting said deal chances.

4. A computerized video device as in claim 3, characterized in that the random number is an integer from 1 to the maximum number of deal chances in a particular game.

5. A computerized video device as in claim 1, characterized in that the game programs further comprise the randomized storing of deal chances in memory addresses.

6. A computerized video device as in claim 1, characterized in that the deal chances further comprise sets of a plurality of predetermined symbols.

7. A computerized video device as in claim 1, characterized in that said video display means further comprises a selection means offering the player a chance of a plurality of games, each comprised of finite chance deals from which he chooses all or some of an array of unrevealed chances.

8. A computerized video device as in claim 7, characterized in that said video display means further comprises a selection means offering the player the option of selecting a new array of unrevealed chances in the current game.

9. A computerized video device as in claim 7, characterized in that said video display means further comprises a selection means offering the player the option of exiting the current game to select a new game.

10. A computerized video device as in claim 1, characterized in that said processing means, said game programs and said video display means further comprise means for determining and displaying the approximate percentage of chances remaining in a particular deal.

11. A computerized video gaming device as in claim 1, characterized in that said processing means further comprises means for retiring a deal after the last available chance is exhausted.

12. A computerized video gaming device as in claim 1, characterized in that said processing means comprises means for retiring a deal after all the major winning chances are won.

13. A computerized video device as in claim 1, further comprising:

a plurality of said devices sharing a common game program; and

interfacing means for communicating game update data between each said device whereby said players can compete with each other while playing the same deal of a game simultaneously.

14. A computer game of chance method utilizing a computer-controlled video screen comprising the steps of:

generating a deal database comprising a plurality of programs for playing and accounting for the play of each of a plurality of titled games, wherein a game is a plurality of deals, with each deal database as offered providing and accounting for a specific and preset combination of graphic symbols representing a finite and predetermined quantity of chances;

designating and displaying on the video screen predetermined combinations of graphic symbols as representing winning chances;

visually offering the player the choice of said plurality of titled games on the video screen;



comparing the selected chances to the sets of graphic symbols representing winning chances and displaying the associated, predetermined, specific winning amounts;

characterized in that each deal database as offered further provides a preset price per chance displayed to the player prior to game title selection, and a fixed, predetermined quantity of winning chances displayed to the player prior to game title selection, and in comprising the steps of:

designating and displaying on the video screen, the specific amount each said winning chance pays out;

randomly generating the order of appearance of a plurality of said chances comprising an array of chances displayed on the video screen and offered to a player from the current deal, whereby a player may select and choose unrevealed chances, the player having the option to choose all, one, or more than one of said unrevealed chances; and

revealing the symbol sets represented by said chosen chances, subtracting from the deal database said chosen chances and returning the chances not chosen to the deal.

15. A computer game method as in claim 14, characterized in that random generation of a set's order of appearance comprises the determining of a random number from 1 to the maximum number of chances in a particular deal, and said random number locating the relative position of said selected set within said deal database.

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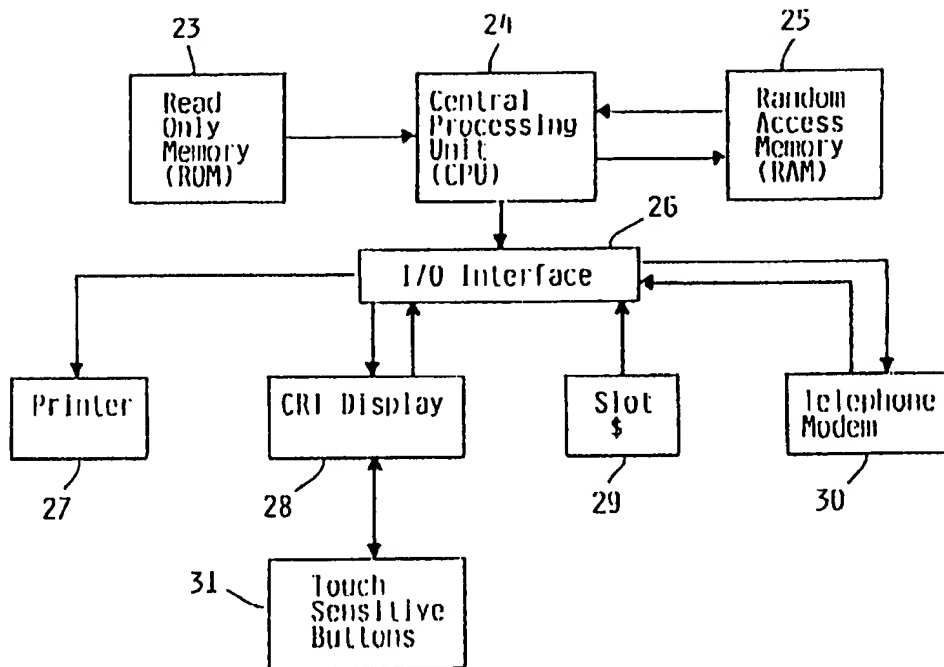


FIG. 1A

*Scott & Aylen*

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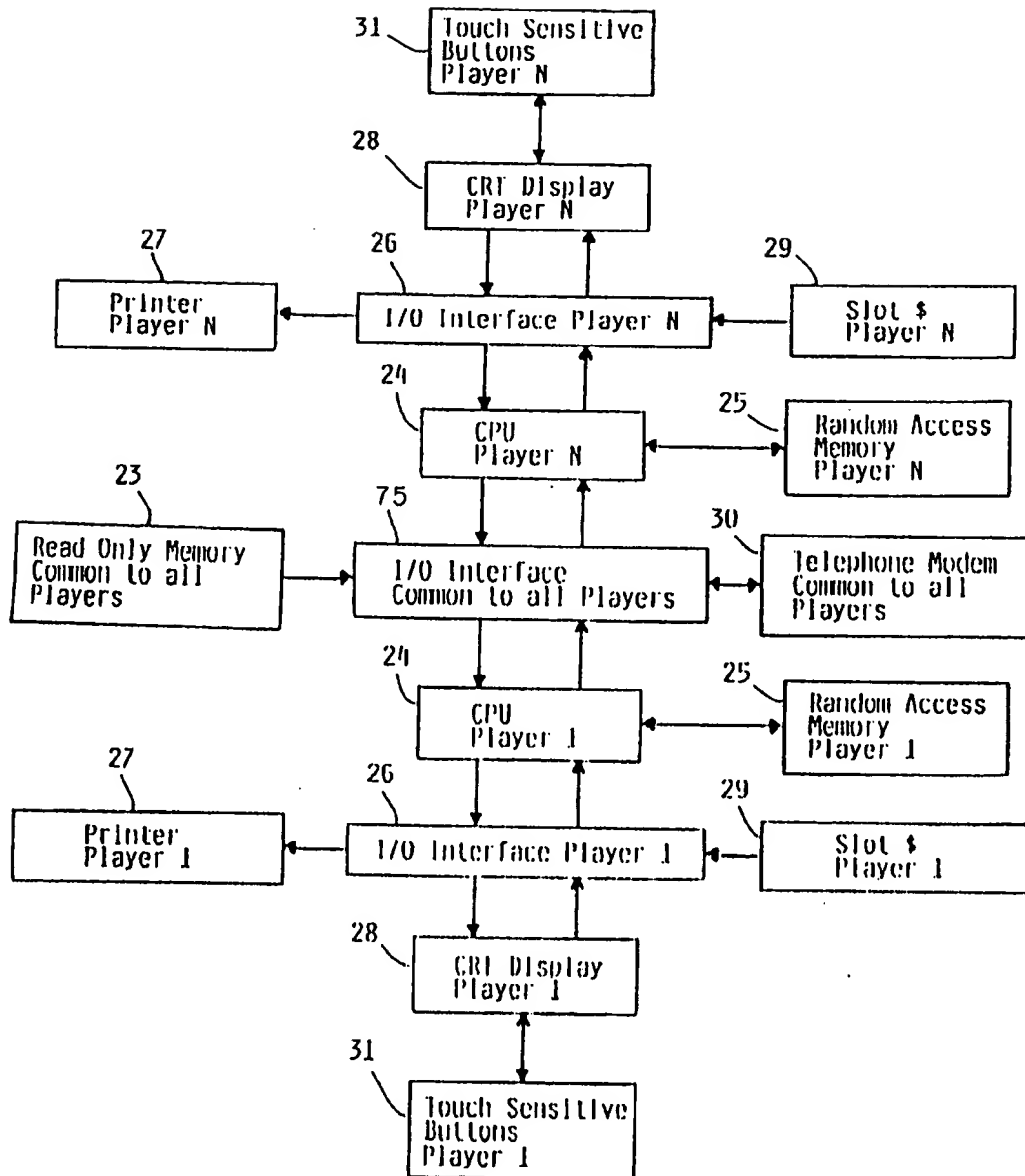


FIG. 1B

Scott & Aylen

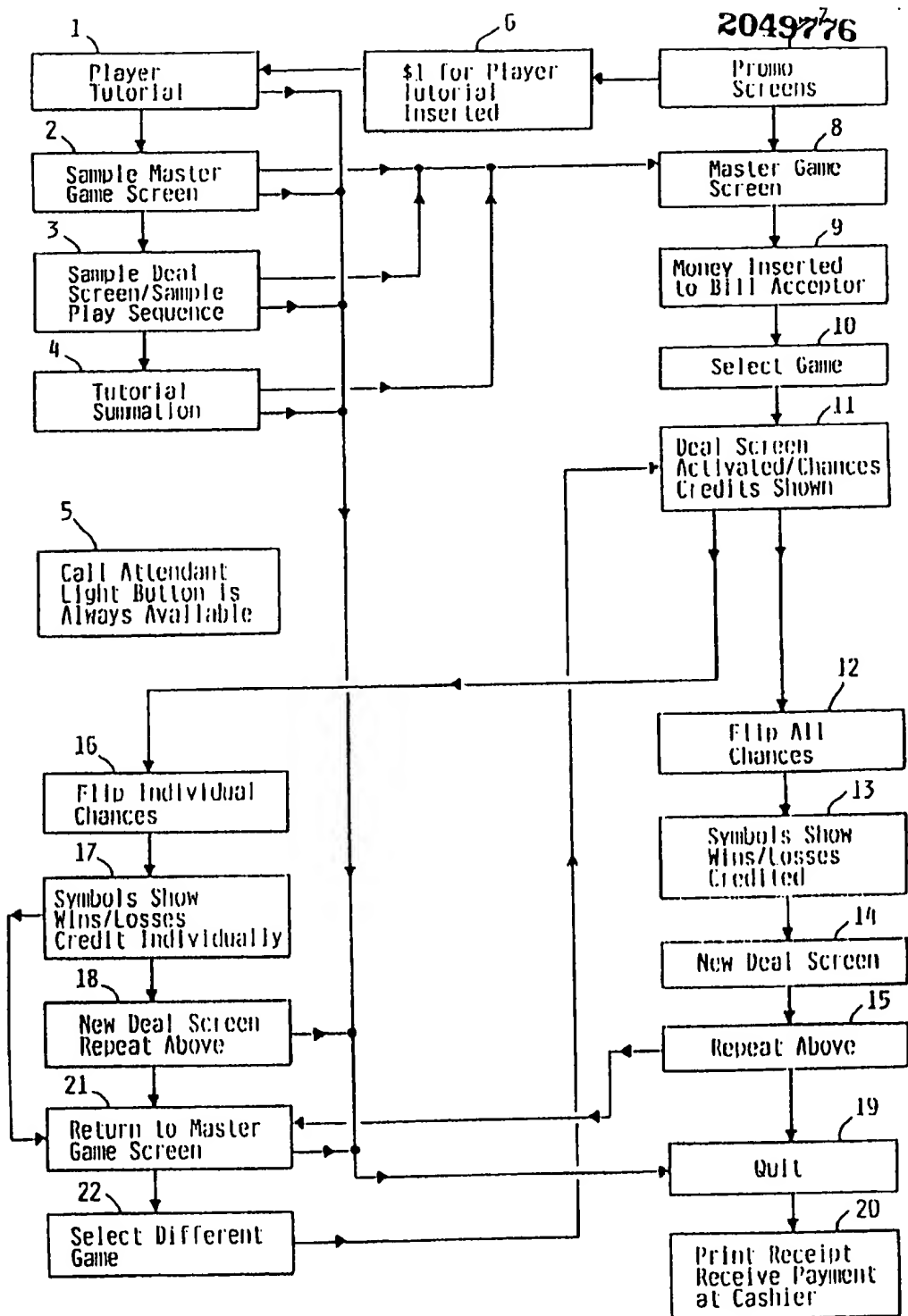


FIG. 2

Scott & Aylon

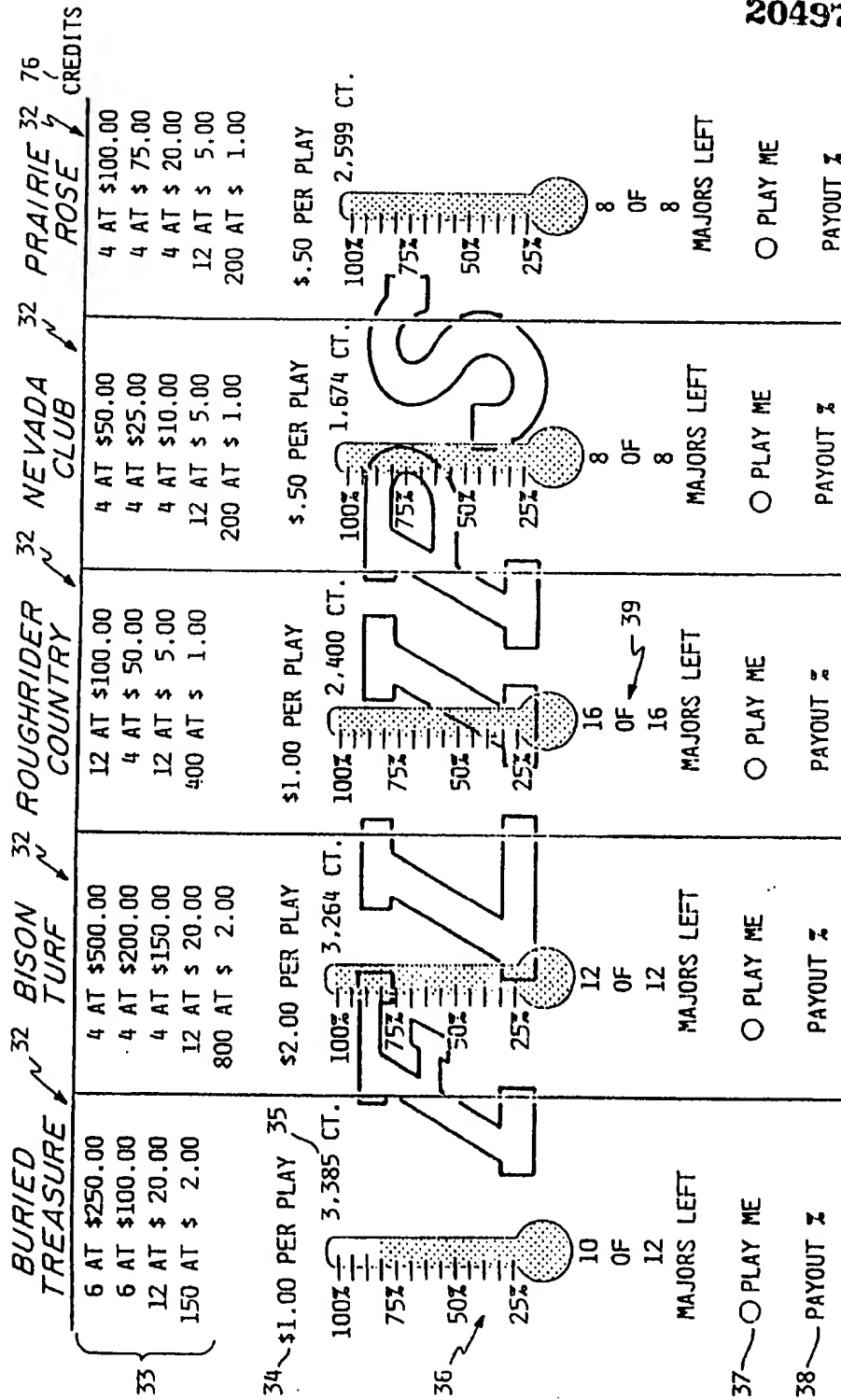


FIG. 3

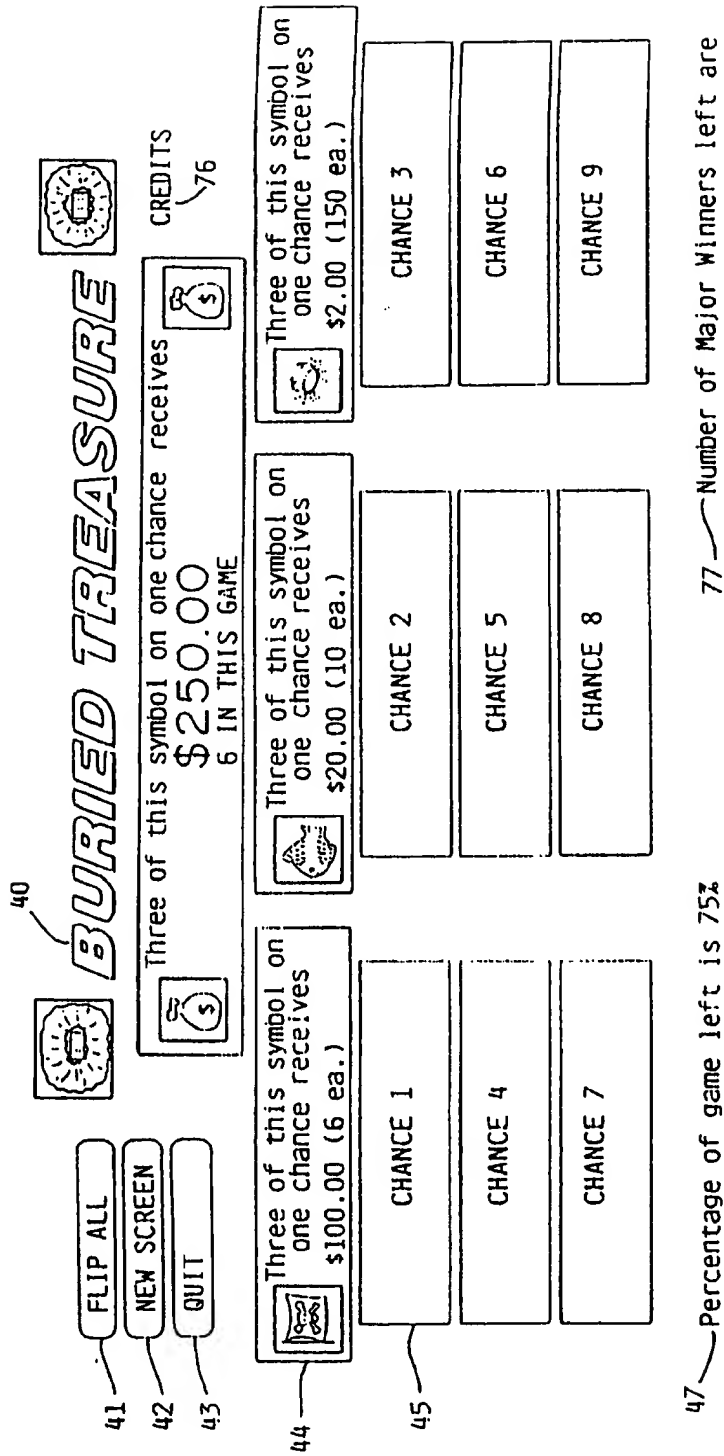


FIG. 4

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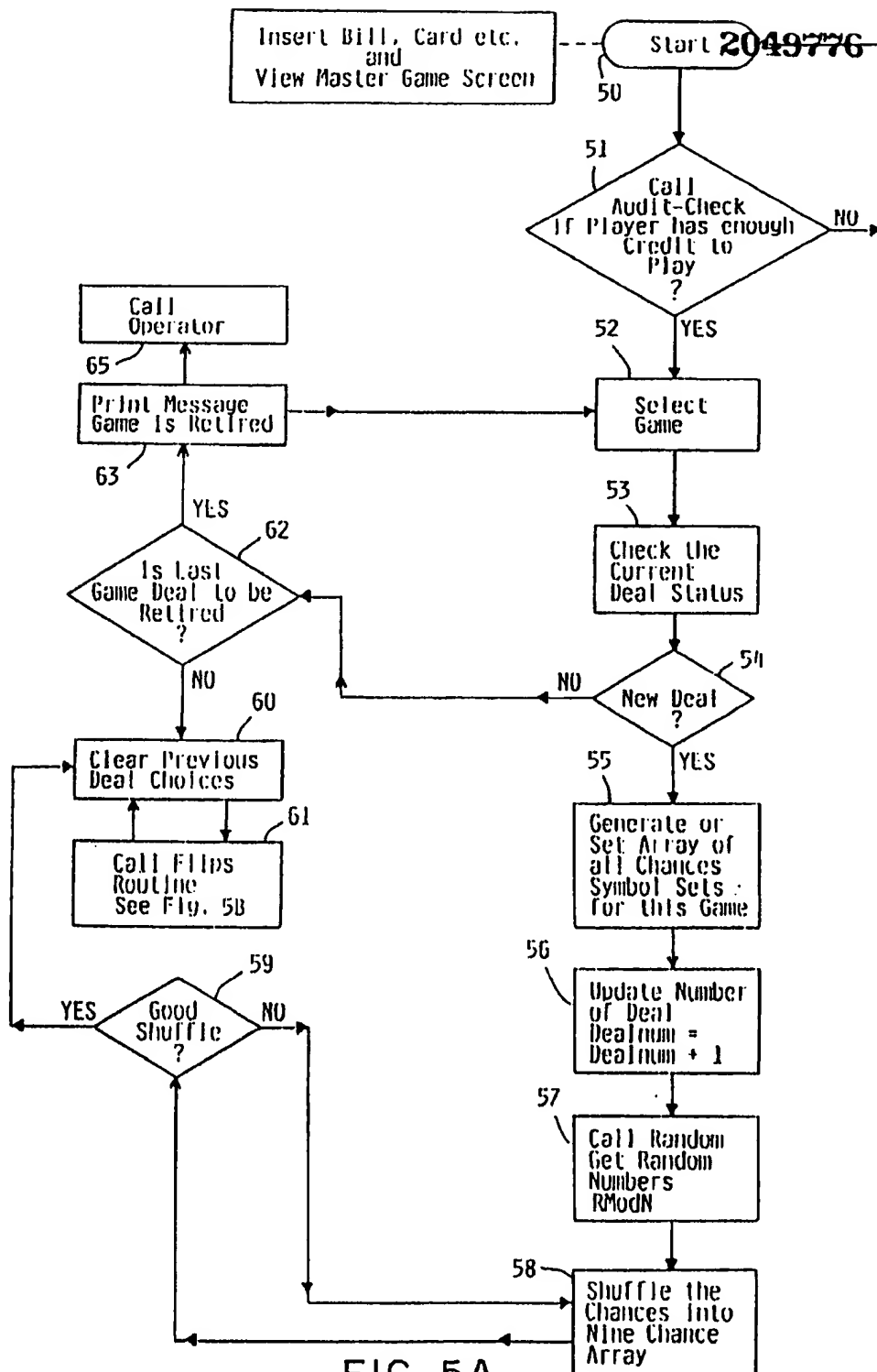


FIG. 5A

Scott & Aylon

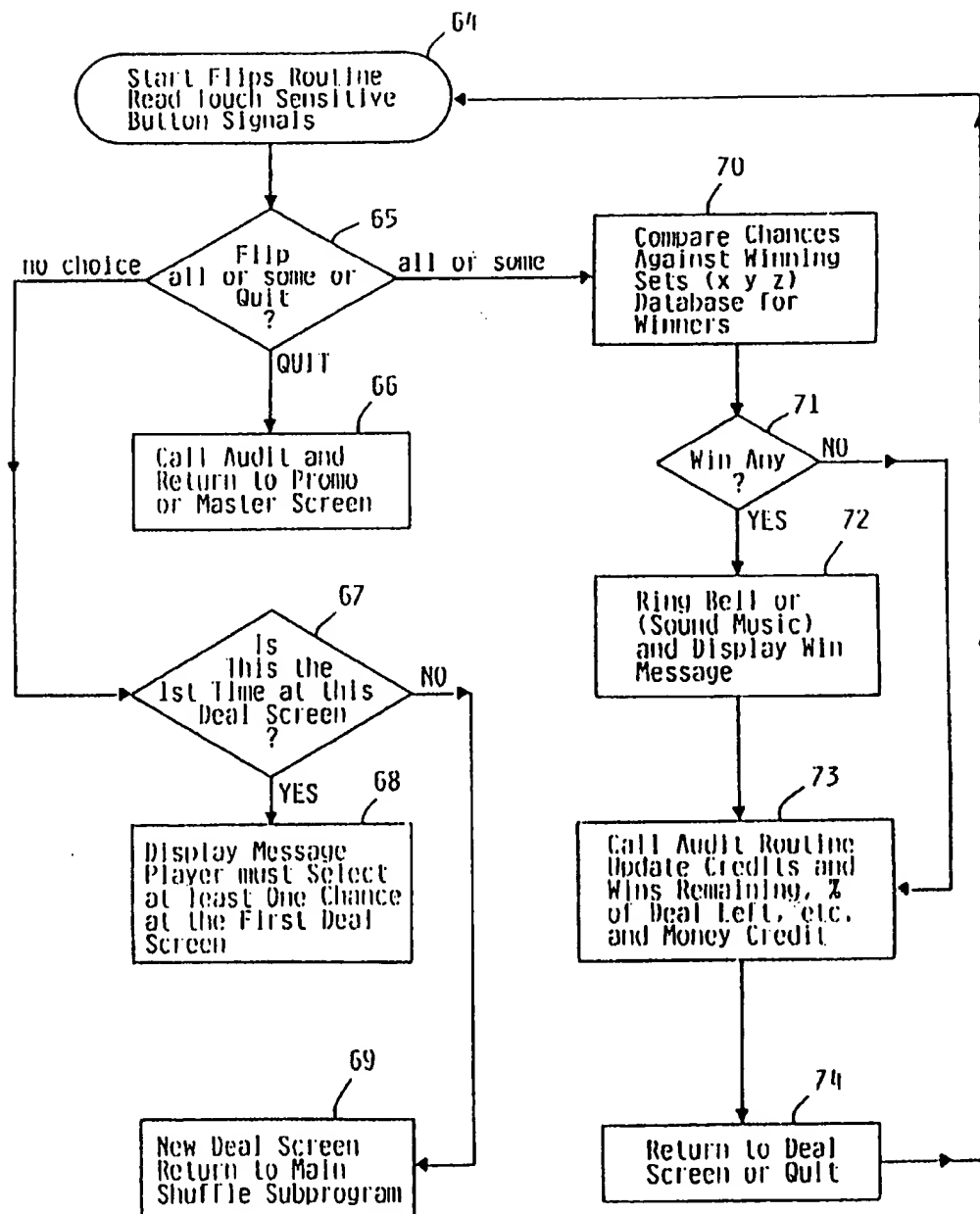


FIG. 5B

*Scott & Aylen*



